

# AMS FLIGHT SCHOOL



*Be Pilot In Command*

## Cessna Skyhawk Aircraft Exam

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Instructor: \_\_\_\_\_ CFI #: \_\_\_\_\_ Exp: \_\_\_\_\_

Aircraft Make: Cessna      Model: C172  
Aircraft Engine: Lycoming      Model: 0-320

### 1. SPEEDS:

Vr \_\_\_\_\_ Max Headwind Component @ AMS \_\_\_\_\_

Vx \_\_\_\_\_ Max Crosswind Component @AMS \_\_\_\_\_

Vy \_\_\_\_\_ Max Demonstrated Crosswind Component \_\_\_\_\_

Vfe \_\_\_\_\_ Oil Capacity \_\_\_\_\_

Va \_\_\_\_\_ (Max Gross Weight) Minimum Oil \_\_\_\_\_

Vno \_\_\_\_\_ Total Usable Fuel \_\_\_\_\_

Vne \_\_\_\_\_ Minimum Fuel Grade \_\_\_\_\_

Vso \_\_\_\_\_ Fuel Color \_\_\_\_\_

Vs1 \_\_\_\_\_ Maximum Baggage \_\_\_\_\_

### 2. HOW MUCH FUEL DOES THE AIRCRAFT HOLD?

\_\_\_\_\_  
\_\_\_\_\_

### 3. EXPLAIN WHAT THE ENGINE DRIVEN FUEL PUMP IS.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. THE FLAP SYSTEM IS \_\_\_\_\_ ACTIVATED AND HAS A MAXIMUM OF \_\_\_\_\_ DEGREEES.

5. EXPLAIN WHAT THE MAGENTOS ARE AND HOW YOU CHECK THEM ON A RUN-UP.

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6. PRIMARY ELECTRICAL POWER IS SUPPLIED BY THE \_\_\_\_\_ AND SECONDARY ELECTRICAL POWER IS PROVIDED BY A \_\_\_\_\_.

7. THE SKYHAWK IS EQUIPPED WITH A \_\_\_\_\_ PITCH PROPELLER.

8. WHAT IS THE GOVERNOR AND HOW DOES IT WORK?

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9. WHAT IS MANIFOLD PRESSURE AND HOW IS IT CONTROLLED?

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10. COMPUTE WEIGHT AND BALANCE:

Pilot weighs 185 lbs and co-pilot weighs 210 lbs, there is one passenger in the rear seats that weight 45 lbs. You plan to depart with full fuel and 40 lbs of baggage. (Use actual aircraft empty weight, arm, and moment).

Item	Weight	Arm	Moment
Empty Weight			
Pilot & Front Pax			
Rear Passengers			
Fuel			
Baggage			
<b>Total</b>			

IS THIS AIRCRAFT WITHIN WEIGHT AND BALANCE LIMITATIONS? \_\_\_\_\_

**11. TAKE-OFF AND LANDING DISTANCE:**

Given the following conditions

*Pressure Altitude: 2500 ft.*

*Current temperature: 10 C*

*Weight: \_\_\_\_\_*

*Wind: 5 kt headwind*

What will be the normal ground roll distance on take-off with no flaps? \_\_\_\_\_

How much runway will be left at Milton (2R4) \_\_\_\_\_

What will be the landing distance over a 50 ft. obstacle? \_\_\_\_\_

**12. CROSSWIND COMPONENT:**

You are departing runway 36, the wind is 290 at 18 kts. Have you exceeded the manufacturers demonstrated crosswind component? \_\_\_\_\_

13. Explain what leaning does and how it is accomplished in flight.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**EMERGENCY PROCEDURES**

14. EXPLAIN THE PROCEDURE FOR ENGINE POWER LOSS IN-FLIGHT.  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

15. EXPLAIN THE PROCEDURE FOR AN ELECTRICAL FIRE/SMOKE?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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**16. EXPLAIN WHAT YOU WOULD DO IF FLAPS WOULD NOT EXTEND UPON LANDING.**

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**17. DISCUSS THE PROCEDURE FOR DOOR OPENING IN FLIGHT.**

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**18. HOW WOULD YOU KNOW IF YOU LOST YOUR ALTERNATOR AND WHAT WOULD YOU DO?**

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**FOR INSTRUCTOR USE ONLY**

**PILOT MEETS CHECKOUT REQUIREMENTS?** \_\_\_\_\_

**PILOT TOTAL HOURS** \_\_\_\_\_ **PIC HOURS** \_\_\_\_\_

**C172 HOURS** \_\_\_\_\_

**PILOT MEETS CURRENT INSURANCE POLICY MINIMUMS FOR RENTAL?** \_\_\_\_\_